

## CLAIMS

1. A method for authenticating software downloaded in a terminal, said method comprising a step for authenticating by certificate said downloaded software by means of software integrated in said terminal, characterized in that it also comprises a step for authenticating by certificate, during execution of said downloaded software, said first integrated software by means of an authentication software module associated with said downloaded software.
2. The method as claimed in claim 1, in which the first integrated software authenticates the downloaded software by means of an authentication library and a first certificate, in which the first integrated software and the authentication library form a first part of write-protected memory (10), and in which the downloaded software and the first certificate (12) form a second part of loadable memory (11).
3. The method as claimed in claim 2, in which the first part (10) also includes a second certificate (13), in which the second part (11) also includes verification software, and in which, once the downloaded software has been authenticated, the verification software authenticates the first integrated software by means of the authentication library and the second certificate (13).
4. The method as claimed in claim 1, in which these two successive authentications take place on initialization.
5. The method as claimed in claim 2, in which the second part (11) is downloaded.

- 5 6. Integrated software comprising a first write-protected memory part (10), including first software, an authentication library, and a second certificate (13), and a second memory part (11) including application software, a first certificate (12) and verification software, for executing the steps of the method as claimed in any one of claims 1 to 5, when said software is executed on a computer.